

LISTings

Newsletter of the Long Island Sinclair / Timex Users' Group

15 YEARS AND STILL GOING STRONG!

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to: L.I.S.T.

Mr. Robert Gilder
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COMING EVENTS: The next L.I.S.T.
meeting will be Sunday, 12/14, 97
at 2 P.M. at the home of Bob
Gilder, 69 Jefferson Place,
Massapequa, New York 11758
Tel: 516-541-2271

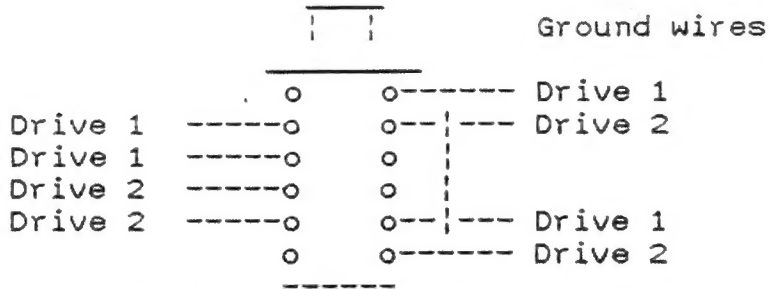
NEXT MEETING: DECEMBER 14, 1997

On a sample copy sent upon receipt of business size SASE. Copies provided on Exchange basis with other Bona fide user groups. We are always looking for articles, programs, reviews, etc to keep members informed and entertained. You maintain full credit and copyright.

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QL CORNER

Several months ago when I wrote an article about placing a QL motherboard into a desk top case or a tower case and I promised that I would provide a schematic for switching disk drives from one - to two and viceversa. Here it is:



Six pole double pole slide switch or rotary switch

The Ultra Gold Card

Miracle Systems has announced that they are now working on a new card to give the QL another boost in performance. The Ultra Gold Card will be based around a 66MHz 68060 processor and is expected to provide an eight fold improvement in speed over the Super Gold Card. It will require a Super Gold Card in the system to handle the I/O and will plug into the Q-Plane as a peripheral and will be compatible with Aurora. There will be a SIMM socket to allow for large amounts of RAM and a high speed network. The unit is expected to be available later this year and will be produced by Q-Branch. Q-Branch, P.O. Box 7, East Sussex, United Kingdom BN41 2ND; Telephone +44 1273 386030. Fax +44 1273 381577.

TF Services - SuperHermes LITE

The SuperHermes with improved Hermes (serial ports seri1/2 is running at full 19200bps independent of sound, split input baud rates, debounced keyboard and key click and IBM keyboard only.

Currently there is support for following keyboard layouts:

UK, German (2 layouts), French and Italian (shifted numbers optionally), Danish, Norwegian and Swedish.

Prices are:	SuperHermes LITE	Kbd lead
UK	'50	'3
EC	'52	'3.50
Europe (outside EC)	'48	'3
Rest of world	'50	'3.50

News from the Meeting in Solms

Peter Graf has shown a very interesting looking QL motherboard. The Q40 hardware replaces the Sinclair QL delivering much more speed, graphics, storage and peripheral capabilities. It uses a completely new motherboard designed to run QDOS on a 68040 microprocessor.

The Q40 mainboard

Like the original QL motherboard the Q40 is a complete solution including graphics, peripherals and sound. It fits directly into an industry standard case. No parts from an existing QL, no CPU card, no backplane, no keyboard interface is needed. The Q40 mainboard is equipped with a Motorola M68040 CPU, probably running at 33 to 40MHz. Here is a list of features:

RAM: EDO DRAM 4MB up to 32MB. Fast EDO Burst access. Two 72 pin PS2-SIMM sockets for easy upgrading.

ROM: 256KB, data bus 32 bit wide. Up to 1MB are supported.

Graphics: High speed graphics chipset and 32 bit dual port video RAM, Video modes:

- QL mode 8 256x256 pixels, 8 colors.
- QL mode 4 516x256 pixels, 4 colors.
- Hi-color mode 512x256 pixels, 64k colors.
- Hi-color mode 1024x512 pixels, 64k colors.

Multisync monitor output, 65Hz vertical refresh rate, non-interlaced, dual screen capability.

Keyboard Interface: Controller for MF-102 keyboards.

Sound Serial digital-analog converters, 10khz or 20khz sample rate.

Clock and Nonvolatile RAM battery buffered real time clock 2KB nonvolatile RAM.

Disk Interface: Enhanced IDE controller for up to 4 harddisks (16 bit wide data transfer) Floppy disk controller for 2 HD floppies.

Ports: 2 serial ports with FIFO, 57600 Baud 1 parallel port 1 joystick port Disk interface and ports are on a compact IDE/Multi IO card that belongs to the motherboard.

Extension Slot: The mainboard has two extension slots, one of them is occupied by the IDE/Multi IO card. There are 16 data lines and 20 address lines, all signals are buffered and well defined. Signals and pinout also allow some ISA cards to be used in the slot.

Q40 System: A complete Q40 system is a mainboard in combination with IDE harddisk and HD floppy mounted in an industry standard case with power supply, and an MF-102 keyboard (Microdrives and slow QL network are not supported).

Mainboard prototype is in the state of hardware testing. For more information contact Dipl.-Ing. Peter Graf, Lahnstr. 32 35239 Steffenberg, Germany.

From: John Pazmino <john.pazmino@ferc.fed.us>
To: bmalloy@idt.net
Subject: Computer Fair in California

Here's an interesting piece about a fair for vintage computers. It doesn't specify mention any other than the Apple {}, but LIST members out there can check it out. Hope this can get into LISTing in time!

ANNOUNCING THE FIRST ANNUAL VINTAGE COMPUTER FESTIVAL by Sam Ismail

Mark your calendars! The first ever public celebration of vintage computers will take place at the Alameda County Fairgrounds in Pleasanton, California this October 25th and 26th.

The Vintage Computer Festival (VCF) is the first event of its kind anywhere in the world. This two day festival will feature presentations and workshops by notable computer industry figures and vintage computer hobbyists. There will also be an on-site, hands-on vintage computer exhibition. Experiment with the classic computers of yesteryear!

Each year a computer from the past is placed in the Vintage Computer Spotlight. This year we focus on the Apple][. To celebrate the 20th anniversary of this classic, we will be giving away an original Apple][personal computer! Each person who attends the VCF is automatically entered into the drawing!

Both seasoned and new computer collectors will enjoy workshops and panels to share ideas and learn about finding, acquiring, restoring, and enjoying vintage computers.

The VCF also features the Vintage Computer Flea Market. Find those old computers, peripherals, manuals, and programs you've been looking for! The flea market is the ideal way for new comers to the field to start their own collection or for seasoned collectors to add to their existing stash.

Celebrate the good old days of computing! Attend the First Annual Vintage Computer Festival!!!

When: October 25-26th, 9:00AM - 5:00PM daily

Where: Alameda County Fairgrounds, Pleasanton, California

Admission: Pre-registered (\$SAVE\$)

Individual: \$15

Family: \$24 (two adults and four children)

Benefits of pre-registration include:

- o Access to speakers, workshops, flea market and exhibition
- o Pre-paid parking

To pre-register, send a check or money order to:

Vintage Computer Festival
4275-29 Rosewood Drive #161
Pleasanton, California 94588

Please make checks payable to "Vintage Computer Festival"
At-the-door

- o Speakers, Workshops, Flea Market and Exhibition

Individual: \$10.00

Family: \$16.00

o Flea Market and Exhibition only

Individual: \$5.00

Family: \$10.00

Please note: "At-the-door" rate is for a one day pass only and does not include parking.

For more information including the latest list of speakers and workshops please check out:

<http://www.siconic.com/vcf>

or send e-mail to:

<mailto:vcf@siconic.com>

SEE YOU AT THE VINTAGE COMPUTER FESTIVAL!!!

Here are two articles for LISTings, taken from Internet postings. I did some minor touchups on them.

Has the gang considered holding LIST meetings at Zebra Systems? You folk can drive to some busy LIRR station, like Valley Stream, park there, and take the train to the City. Zebra's office is a short walk from Penn Station, about the distance from Valley Stream station to Harvey's house. Also, Stuart Newfeld did prefer Sunday for such meetings, so I think there would be little disruption to our established pattern of meetings.

Content-Disposition: attachment; filename="QL-FAQ"

QL FAQ AND RESOURCE POINTER by Richard Zidlicky

Posted in COMP.SYS.SINCLAIR on 1 September 1997. Mr Zidlicky is at rdzidlic@fau180.informatik.uni-erlangen.de.]

Here is my small list of information, links and addresses related to the Sinclair QL and compatible computers. Email any comments, new sites and those I have forgotten to mention to rdzidlic@cip.informatik.uni-erlangen.de. If you would like receive updates of this list by email, just email me. Also email me if you feel that I have missed something=20 in the description of your site, I usually do not browse them more than once in a month or two.

This is a radically shortened version; you can get the FULL list at the addresses mentioned below or request it by email from me:

<http://www.geocities.com/SiliconValley/Bay/2602/ql.html>

<http://www.di-ren.demon.co.uk/ql/faq.htm>

The QL FAQ is maintained by Robert Klein, it contains lots of=20 information about history and current developments, available and historic hardware including many emulators, Thor and OPD, software, clubs,=20 magazines and dealers. You can also browse html manuals of PROforma,=20 ProWesS and syslib through Roberts page. The FAQ is available from :

<http://www.uni-mainz.de/~roklein/ql/>
<http://vzdmzi.zdv.uni-mainz.de/%7Ekleir000/index.html>

If you are looking for a QL dealer, club or other contacts make sure to check out Robert's services list.

Older versions of the FAQ are ftpable from maya and garbo, see below.=20 The author can be reached by email as roklein@goofy.zdv.uni-mainz.de The newest version of the fantastic c68 compiler will be available from Dave Walker's homepage, you may also find it on Thierry's WWW, or [ftp.nvg.unit.no](ftp:nvg.unit.no).

Dave's homepage: <http://ourworld.compuserve.com/homepages/DaveWalker/>
Dave is currently moving his homepage, refer to Thierry's page for=20 the new location####

Thierry Godefroy's home page, list of BBSSs, WWWs, FTPs, QLCF BBS c68=20 and some other software for download:

<http://www.imagnet.fr/~godefroy/>
<http://www.imagnet.fr/~godefroy/english/index.html> (ENGLISH)
<http://www.imagnet.fr/~godefroy/english/download.html> (lots of software to download)
<http://www.imagnet.fr/~godefroy/download.html>

The classification was not easy, some dealers offer more services that are of general interest and perhaps should also be included below.

Di-Ren's homepage, product info, e-mail list, links, other QL traders, QL Magazines info, Meetings, QUBBESoft news, S.J.P.D=20 overview and full catalog, for sale and wanted:
<http://www.di-ren.demon.co.uk/ql/homepage.htm>

* TF Services/Tony Firshman's home page, Super)Hermes, Minerva, I=B2C and mains filter product info, spare parts, QL repairs, QBBS info:
<http://www.firshman.demon.co.uk/>

* Jochen Merz Software
<http://wwwusers.imagnet.fr/~godefroy/english/frames.html>

* Phil Borman's page, Pbox, QWK, Fido, QtoP and Qubide for download:
<http://www.pborman.demon.co.uk>

* Quo Vadis Page:
<http://ourworld.compuserve.com/homepages/qvd/>

* FWDComputing by Frank Davis
<http://wwwusers.imagnet.fr/~godefroy/english/frames.html>

* * * * *

WEDGEWORKS

by Fred Stern

Well it is the middle of Summer 1997. It is their anything doing in the Timex - Sinclair community? Yes their is, and here is how to find it!

The first thing you must do is obtain access to the internet and the "World Wide Web". There are two ways to do this. Either obtain an IBM PC or compatable, or connect a modem to your existing Timex - Sinclair Computer equipment. Since this is a Timex - Sinclair users news

letter, and this is the TS1000 - ZX81 Section, I will discuss two options using these computers.

With the TS100 (ZX81) and a 16K Ram pack, there are 2 modems available through surplus sources which are commercially manufactured. They are Byte-Back and the Westbridge modems. I do not have any experience with the Byte-Back modem system, but I have worked extensively with the Westbridge modem also known as the TS2050.

The Westbridge modem is a 300 baud modem, which is very slow by today's standards. There are two ways this modem can be used:

The first option is to use the modem as-is. If you have this modem and the software to operate it, you have a telecommunication system. Contact "Internet access business or organizations" in your area. Inquire if their system will accommodate your 300 baud system. Many organizations such as; Public Library Systems, Local Public School Systems and State or City Colleges allow access to the Internet for the lower baud users. The cost for the privilege, I have found range from \$30.00 per month to free access.

The second choice is to modify the Westbridge modem to give you an RS-232 port. This port is connected to an external modem of a higher baud rate; i.e. 1200 baud Hays or a higher baud modem. It seems to be the higher the baud rate you can operate at, the easier it is to get onto the Internet. Many private internet access operations or businesses accept 24 baud usage. Don't expect graphics download as with a Pentium P.C. These services offer text only, which is good enough to send and receive E-Mail, access user groups or chat in a chat room.

Next installment will tell how to connect the Westbridge modem for RS 232 operations.

Sinclairing You All, Fred Stern

Don Lambert has some items for sale: 1301 Kiblinger Place, Auburn, IN
46706-3010 Tel: 219-925-1372

FOR SALE: MAKE OFFER INCLUDING POSTAGE. IF OFFER IS ACCEPT IT WILL BE
WROTE IN STONE AND I WILL WRITE YOU FOR THE PAYMENT.

Please list the item number and the item name so that there is no
misunderstanding of what you are making the offer on. While I thing
that all are working I can not guarantee that all are. I will designate
those that I know do work.

1.) MINDWARE PRINTER WITH SPARE RIBBON & FIVE ROLLS OF PAPER &
DOCUMENTATION. FIVE POUNDS SHIPPING WEIGHT.

2.) ZX PRINTER AND TWO ROLLS SILVER PAPER & DOCUMENTATION. THREE POUNDS
SHIPPING WEIGHT. WILL NEED A 1 AMP POWER SUPPLY AND IF ONE IS WANTED CAN
BE SUPPLIED AND WEIGHT WILL GO UP ABOUT ONE POUND.

3.) T/S 1000 WITH 64K MEMORY INTERNALLY INSTALLED MOUNTED IN A
SUNTRONICS KEY BOARD CASE. THE COMPUTER HAS BOTH A TV AND MONITOR JACK.
NO MANUAL OR POWERSUPPLY OR CABLES. ZX81 MANUAL, POWERSUPPLY AND CABLES
CAN BE SUPPLIED BUT WEIGHT WILL GO UP A POUND EACH FOR MANUAL AND
POWERSUPPLY.

- 4.) T/I KEYBOARD MOUNTED IN A WOOD CASE WITH A 15 PIN CONNECTOR THAT PLUGS INTO AN INTERFACE BOARD AND ALSO A FORTH ROM T/S 1000 COMPUTER. NO T/S LEGENDS ON THE KEYBOARD. THE INTERFACE BOARD PLUGS INTO THE BACK OF A T/S 1000 OR 2068 COMPUTER BUT DOES NOT WORK ON A T/S 2068 FOR SOME REASON. GREAT FOR CHECKING A T/S 1000 WITH A BAD KEYBOARD. THE FORTH COMPUTER IS SWITCHABLE FROM T/S 1000 MODE TO FORTH BY WAY OF THE CHANNEL CHANGE SWITCH ON THE BOTTOM WHICH MEANS THAT YOU CHANGE THE TV CHANNELS. THE FORTH COMPUTER IS OUT OF THE CASE. 4 POUNDS SHIPPING WEIGHT.
- 5.) QUANTITY 2 TEAK 1/2 HEIGHT 5.25" 40 TRACK (400K) DISK DRIVES TESTED AND WORKING. NOTE: THE RIBBON CABLE CONNECTOR IS UPSIDE DOWN TO WHAT OTHER DRIVES HAVE THEIR CABLE CONNECTORS. SHIPPING WEIGHT 7 POUNDS.
6. T/S 1000 COMPUTER BOARD (OUT OF CASE) ON WOOD BASE WITH KEYBOARD AND MULE LEGENDS AND HAS TV/MONITOR JACKS. NO MANUAL OR POWER SUPPLY OR CABLES BUT COULD BE INCLUDED IF WANTED. FIVE POUNDS SHIPPING WEIGHT.
- 7.) T/S 1000 COMPUTER COMPLETE IN ORIGINAL BOX WITH ALL PARTS. NOT KNOWN IF WORKING. THREE POUNDS SHIPPING WEIGHT.
- 8.) 5.25 FULL HEIGHT 40 TRACK (400K) DISK DRIVE IN CASE WITH POWER SUPPLY. EIGHT POUNDS SHIPPING WEIGHT.
- 9.) T/S 1000 OR 1500 COMPUTER CARRYING CASE. THREE POUNDS SHIPPING WEIGHT.
- 10.) QUANTITY 10 T/S 1000 COMPUTER BOARDS OUT OF CASE (FOIL WRAPPED AND ONE FILE 60 KEYBOARD OVERLAY TO PUT OVER THE KEYBOARD OF A T/S 1000. FOUR POUNDS SHIPPING WEIGHT.
- 11.) T/S 2040 CONNECTOR LIKE ON THE 2040 PRINTER NEW NEVER BEEN USED PASS THROUGH BOARD AND SHELL. EIGHT OUNCES SHIPPING WEIGHT.
- 12.) MEMOTECH 16K RAMPACK VERSION WITH SWITCHES TO USE WITH 16K RAMPACK FOR 32K OF MEMORY IN ORIGINAL BOX AND DOCUMENTATION. NOT KNOWN IF WORKING. ONE POUND SHIPPING WEIGHT.
- 13.) MEMOTECH 16K RAMPACK VERSION WITH SWITCHES TO USE WITH 16K RAMPACK FOR 32K OF MEMORY WITH DOCUMENTATION. NOT KNOWN IF WORKING. ONE POUND SHIPPING WEIGHT.
- 14.) ASSEMBLED AND TESTED HUNTER BOARD (FOR 8 TO 16K MEMORY AREA) WITH
- 15.) DISK DRIVE CASE AND POWER SUPPLY WITH TWO FULL HEIGHT 5.25 40 TRACK DISK DRIVES MOUNTED INSIDE. TEN POUNDS SHIPPING WEIGHT.
- 16.) DISK DRIVE CASE AND POWER SUPPLY WITH ONE 5.25 40 TRACK DISK DRIVE. SIX POUNDS SHIPPING WEIGHT.
- 17.) UNASSEMBLED KITS FOR USE ON THE T/S 1000: OLIGER EXPANSION BOARD KIT; OLIGER 64K MEMORY BOARD KIT ALL PARTS; 2764 EPROM READ KIT. ALSO A MRP 64K MEMORY BOARD AND DYNAMIC RAM CHIPS. ALL HAVE DOCS. THREE POUNDS SHIPPING WEIGHT.
- 18.) Z-DUBBER CASSETTE LOAD AID FOR THE T/S 1000. AAA BATTERY HOLDERS CORRODED BUT NEW BATTERY HOLDERS INCLUDED. PARTIAL KIT FOR A Z-DUBBER INCLUDED. ONE POUND SHIPPING WEIGHT.
- 19.) ZX81 16K RAMPACK TESTED AND WORKING. ONE POUND SHIPPING WEIGHT.

Ohm's Law the Easy Way

By Michael A. Covington

The 36-line BASIC program shown here relates voltage, current, resistance, and power. Given any two of these, it computes the others automatically. Unlike most such programs, this one doesn't require you to say in advance which calculation you want it to do or what formula to use; it examines the number you give it and chooses the right formula automatically.

The BASIC statements used here will run correctly on almost any computer. The program is small enough to run on pocket computers and low-end micros such as the Timex-Sinclair 1000. In the interest of brevity, it does not test for erroneous input (for example, fewer than two values given).

The unknown values are identified by giving them as zero (they would never be zero in a real circuit). On some computers, including the IBM PC, you can simply hit ENTER in response to the question mark for an unknown value, and the computer will behave as if you had typed 0.

The program's strategy is as follows:

1. If voltage was not given, compute it. (Any of three formulas may be used depending on what information is available.)

2. If current was not given, compute it. (Since voltage is now known, there are only two formulas to choose between.)

```

10 REM Ohm's law program
20 REM Michael A. Covington
30 PRINT "This program relates voltage, "
40 PRINT "resistance, current, and power."
50 PRINT
60 PRINT "Specify any two; type 0 for the"
70 PRINT "ones you want calculated."
80 PRINT
90 PRINT "Voltage (volts):",
100 INPUT E
110 PRINT "Current (amps):",
120 INPUT I
130 PRINT "Resistance (ohms):",
140 INPUT R
150 PRINT "Power (watts):",
160 INPUT P
170 IF E<>0 THEN 210
180 IF I=0 THEN E=SQR(P*R)
190 IF R=0 THEN E=P/I
200 IF P=0 THEN E=I*R
210 IF I<>0 THEN 240
220 IF R=0 THEN I=P/E
230 IF R<>0 THEN I=E/R
240 IF R=0 THEN R=E/I
250 IF P=0 THEN P=E*I
260 PRINT
270 PRINT "Voltage (volts):",E
280 PRINT "Current (amps):",I
290 PRINT "Resistance (ohms):",R
300 PRINT "Power (watts):",P
310 PRINT
320 PRINT "Another? Type 1 for yes, 2 for no..."
330 INPUT R
340 PRINT
350 IF R=1 THEN 90
360 END

```

3. Compute resistance and power (from voltage and current, which are known by now).

You can apply the same strategy to any equation that you frequently need to solve for any of several va-

riables. There is no need to rummage through a list of formulas, or even choose one from a menu on the screen. After all, the computer doesn't mind doing the extra work, so why not let it? **ME**

ATTENTION LIST Subscribers: When it is time to renew your membership, (look at your mailing label), please make out your check to Robert Gilder, LIST President or to Robert Malloy, Treasurer. PLEASE DO NOT MAKE OUT YOUR CHECK to LIST. Our bank requires a large amount of money in a savings account in order to cash checks. THANK YOU!

Robert Gilder
69 Jefferson Place,
Massapequa, NY 11581

Robert Malloy
412 Pacific Street,
Massapequa Park, NY 11762

Due to rising postage costs outside of the United States, we must raise our annual dues accordingly:

USA postage \$16.00

CANADA and MEXICO \$17.50 US, and the rest of the world \$24.00 US.

Bob Malloy, LIST Treasurer

WHO'S ONLINE

Some of us here at LIST have been wondering how many of our members are using modems with their Sinclair computers. It would be helpful if those of you who are into communications would take a few minutes to let us have the following info.

COMPUTER USED
COMMS PRGRM
BAUD RATE
EMAIL ADDRESS.....
ONLINE SERVICES USED.....
SUGGESTIONS FOR LIST.....

You can reply to me at either of the following addresses:
74776.2342@compuserve.com
bmalloy@chelsea.ios.com (Internet)

Or, you can use our snailmail address.

Bob Malloy

ON LINE

Joe LaPunzina
Bob Malloy
Tom Skapinski
John Pazmino
Tim Swenson
Bill Cable
Mike Jonas
Gary Norton
Al Boehm
Ed Kingsley
Ken Harbit

Jpunzi@aol.com
74776.2342@compuserve.com
tskapins@juno.com
john.pazmino@moondog.com
swensotc@ss2.sews.wpfb.af.mil
bcable@triton.coat.com
mjonas@bbn.com
gnorton@world.std.com
boehm@plh.af.mil
elk4@aol.com
krh03@cvip.fresno.com